

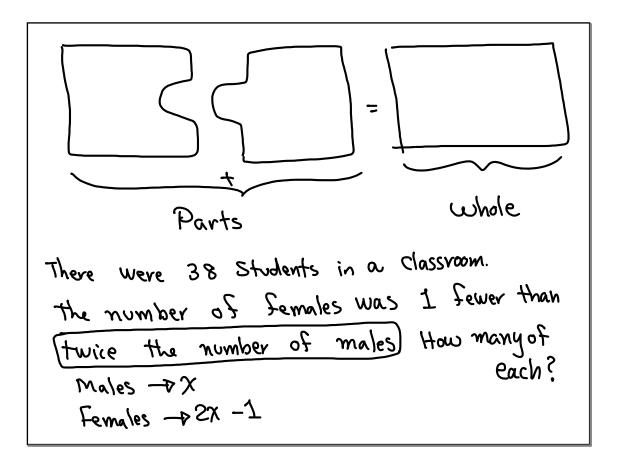
February 09, 2017

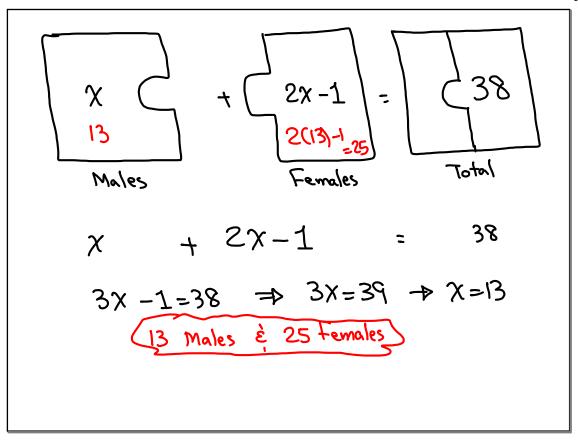
The more than 3 times the sum of some
number and 5 is equal to -12
less than the number of the number.
Let x be the number, for than

$$3(x + 5) + 1 = x - (-12)$$

 $3x + 15 + 1 = x + 12$
 $3x + 22 = x + 12$
 $3x - x = 12 - 22$
 $2x = -10$

The length of a rectangle is I cm longer than Sour times its width. 1) Draw è label Such rectangle 210 4(5) + 1LÈW $4\chi + 1$ 2) find its dimensions if P = 52its perimeter is 52cm. 2L + 2W = 522(4x+1)+2(x)=525cm by 21cm. 8x +2 +2x =52 $10\chi = 50$ x=5





Jose went to Costro and bought 30 items. Shirts, Pants, and Socks only. The number of shirts was twice the # of pants. The number of Socks was 2 more than the # of Pants. How many of each? Total Sodis Pant Shirts 2x+x+x+2=3D30 4×+2=30 x+2]= χ 4χ=28 whole $\chi = 1$ Parts 7 Pants, 14 Shirts, and 9 Socks

Maria cut a piece of wood in 4 pieces. Two pieces had same length. (Total length of was The third piece was I inch Shorter than sinch. the Sum of equal pieces. The last piece was 5 inches longer than the third piece. find the measure of all four Pieres. Total=51 χ χ $2\chi - 1$ $2\chi - 1 + 5$ Fourth Sirst Second Third first + Second + Third + Sourth = 51

+ |x| + |2x - 1| + |2x - 1 + |4| = 51 $|\chi|$ 6x + 3 = 516x = 51 - 3> 8 inches, 8 inches, 6x = 48> 15 inches, and $\chi = 8$ < 20 inches.

when linear equation has	The equation
exactly one Solution	is Contitional
infinitely many Solutions	is an identity
No Solution	is a contradiction

Solve
$$\dot{\epsilon}$$
 determine the type:
 $2(x - 5) - 4(x + 1) = 24$
 $2x - 10 - 4x - 4 = 24$
 $-2x - 14 = 24$
 $-2x = 38$
 $3(2x + 4) - 10 = 2(3x - 1) + 5$
 $6x + 12 - 10 = 6x - 2 + 5$
 $6x (+2) = 6x + 3$
 $6x - 6x = 3 - 2$
 $6x - 6x = 3 - 2$
Equation
 $x = 36$
 $x = 36$

$$4(3 - 2x) -7x = 3(-2x + 5) - 9x - 3$$

$$12 - 8x -7x = -6x + 15 - 9x - 3$$

$$(12) - 15x = (-15x) + 12$$

$$-(5x + 15x = 12 - 12$$

$$0 = 0$$
 in finitely Many
True Statement Solns, All Reals,
R
Eqn is an identity

Solve
$$P=a+b+c$$

 $P=a+b+c$
 $A=\frac{bh}{2}$
Solve $P=a+b+c$ for a .
 $isolate$
 $P-b-c=a$
Solve for L: $P=2L+2W$
 $P-2W=2L$
 $P-2W=2L$
 $P=2W=2L$

Solve for b:
$$A = \frac{Bh}{2}$$

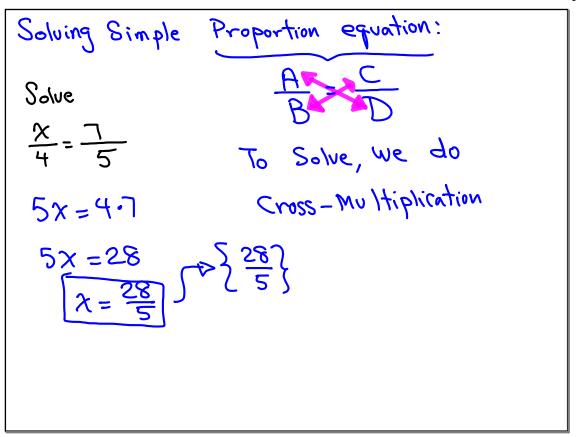
Multiply by LCD to remove
Fraction, LCD=2
 $2A = 2 \cdot \frac{Bh}{2}$
 $2A = Bh$
 $2A = bX$
 h

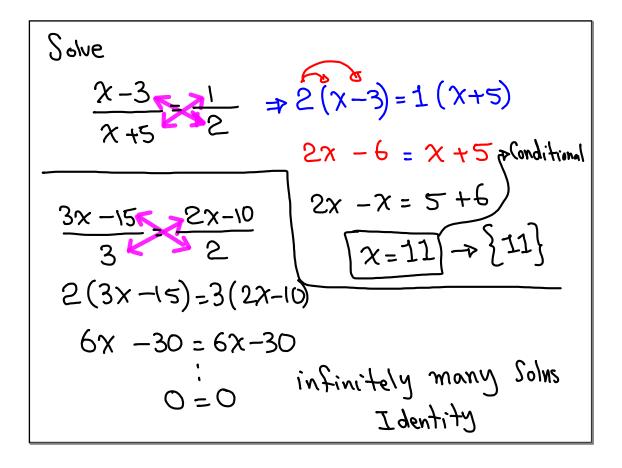
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Solve
$$2x + 3y = 10$$
 for y .
 $3y = 10 - 2x$
 $y = \frac{10 - 2x}{3}$
 $5x^{2} - 2y = 8 \rightarrow Solve Sor y$.
 $-2y = -5x + 8$
 $y = \frac{-5}{-2}x + \frac{8}{-2}$
Recall $\rightarrow y = mx + b$
Slope-Int form

Solve for
$$y: (4\chi) + 3y = 9$$

 $3y = -4\chi + 9$
 $y = -\frac{4\chi}{3} + \frac{9}{3}$ if you do
 $y = -4\chi + 43$
 $= -\frac{4\chi}{3} + \frac{9}{3}$
 $y = -4\chi + 43$
 $y = -4\chi + 43$





Solve
$$\frac{3\chi - 1}{4\chi + 5} = \frac{3}{4}$$

 $4(3\chi - 1) = 3(4\chi + 5)$
 $12\chi - 4 = 12\chi + 15$
 $12\chi - 12\chi = 15 + 4$
 $0 = 19$
Equation is Contradiction
Equation is Contradiction
Exam 1: Next Thursday

Solve for
$$y: \frac{2}{3}x - \frac{1}{4}y = \frac{5}{6}$$
 Hint: Use LCD
LCD = 12 to clear
 $\frac{12}{2}x - \frac{3}{2}x - \frac{1}{4}y = \frac{12}{5}x - \frac{5}{4}x + \frac{5}{4}y = \frac{12}{5}x - \frac{5}{4}y = \frac{12}{5}x - \frac{5}{4}y = \frac{10}{5}x - \frac{3}{5}y = -\frac{8}{5}x + \frac{10}{5}y = -\frac{8}{5}x + \frac{10}{5}y = -\frac{8}{5}x + \frac{10}{5}y = -\frac{8}{5}x - \frac{10}{5}y = -\frac{8}{5}x - \frac{10}{5}y = \frac{10}{5}x + \frac{10}{5}y = -\frac{10}{3}y = -\frac{10}{3}y = -\frac{8}{5}x - \frac{10}{5}y = \frac{10}{5}x + \frac{10}{5}y = -\frac{10}{3}y = -\frac{10}{3}y = -\frac{8}{5}x - \frac{10}{5}y = \frac{10}{5}y = \frac{10}{5}y = \frac{10}{5}x + \frac{10}{5}y = \frac{10}{5}y =$